LESSON PLAN

SUB:- *MECHANICAL ENGG. LAB*

BRANCH:- ELECTRICAL ENGG.

SEMESTER:3rd

SESSION:2022-2023

NAME OF FACULTY: -SUMANTA BISWAL

GOVERNMENT POLYTECHNIC, BHADRAK

Hod Electrical

Academic Co-ordinator

Principal
Govt. Polytechnic Bhadrak

Discipline: ELECTRICAL	Semester: 3rd	Name of the Teaching Faculty: Sumanta biswal
Subject: ME LAB	No. of days/per week class allotted: 4	Semester From date: 15/09/2022 To date: 21/01/2023 No of weeks: 15
Week	Class Day	Theory Topics:
1st	1st	Determination of M.A.,V.R. and efficiency of Screw Jack.
	2nd	Introduction Class
	3rd	Theory class (Theoretical efficiency)
	4th	Showing various parts of testing machine.
2nd	1st	Reading Taking
	2nd	Calculation of efficiency by Faculty. (Actual efficiency)
	3rd	Calculation of efficiency by every student by using given data.
	4th	Record submission
3rd	1st	Study of Universal Testing Machine and determination of tensile stress and Young's module of M.S specificatio.
	2nd	Introduction Class
	3rd	Theory class
	4th	Showing various parts of the UTM
4th	1st	Reading Taking
	2nd	Calculation of stress and young modulus
	3rd	Calculation of by every student by using given data.
	4th	Record submission
5th	1st	Study of pressure measuring devices such as (a) Piezo-meter (b) Simple manometer .
	2nd	Introduction Class
	3rd	Theory class
	4th	Showing various parts of the manometer
		Reading Taking
		Calculation of pressure by faculty
		Calculation of pressure by every student by using given data.

6th	1st	Study of venturi-meter
	2nd	Introduction Class
	3rd	Theory class
	4th	Showing various parts of the venture meter
7th	1st	Reading Taking
	2nd	Calculation of rate of flow by Faculty.
	3rd	Calculation of dirrerents pressure rate of flow by every student by using given data.
	4th	Record submission
8th	1st	Study of Cochran Boiler
	2nd	Introduction Class.
	3rd	Theory class.
	4th	Showing various parts boiler
9th	1st	Reading Taking
	2nd	Calculation
	3rd	Record submission
	4th	Study and demonstration of Stream Engine
10th	1st	Introduction Class.
	2nd	Theory class.
	3rd	Showing various parts of the steam engine
	4th	Reading Taking
		Calculation
		Record submission

11th	1st	Study and demonstration of Diesel Engine.
	2nd	Introduction Class.
	3rd	Theory class.
	4th	Showing various parts of diesel engine
12th	1st	Reading Taking
	2nd	Calculation
	3rd	Record submission
	4th	Study and demonstration of Petrol Engine
13th	1st	Introduction Class.
	2nd	Theory class.
	3rd	Showing various parts of the petrol engine
	4th	Record submission
14th	1st	Verification of Bernouli's Theorem
	2nd	Introduction Class.
	3rd	Theory class.
	4th	Record submission
15th	1st	Determination of friction co-efficient of bearing
	2nd	Introduction Class.
	3rd	Theory class.
	4th	Record submission